SYSTEM AND METHOD FOR PROVIDING PERSONALIZED STORM WARNINGS

ABSTRACT OF THE DISCLOSURE

A system and method for generating storm warnings which are
precisely tailored automatically for a particular individual or business user's
geographic location of interest, which may be provided automatically to the
individual user or business. The user establishes an individualized user profile, in
which the user may define a particular location of interest and a contact address to
which a personalized storm warning is to be delivered. The user may also establish
a storm profile defining attribute characteristics of a storm for which the user
desires a storm warning to be provided, and an amount of advanced warning to be
provided by the personalized storm warning. A detailed and accurate storm track,
which includes information describing storm characteristics (severe weather
conditions) as well as the current location and predicted track of movement of the
storm, is generated. The storm track may be generated automatically from weather
radar data, such as NEXRAD data, either alone, or in combination with local live
weather radar information, to provide a more accurate storm track. Generated
storm tracks are compared to individual user profiles. Personalized storm warnings
identifying in detail the storm conditions approaching a user location of interest and
arrival time information for that location of interest are generated for user profiles
defining locations of interest within a predicted storm track, if the storm track
characteristics of the storm meet the attribute and advance warning characteristics
specified in the storm profile established by the user. The personalized storm
warnings may be delivered to users via e-mail, cell phone, pager, etc.